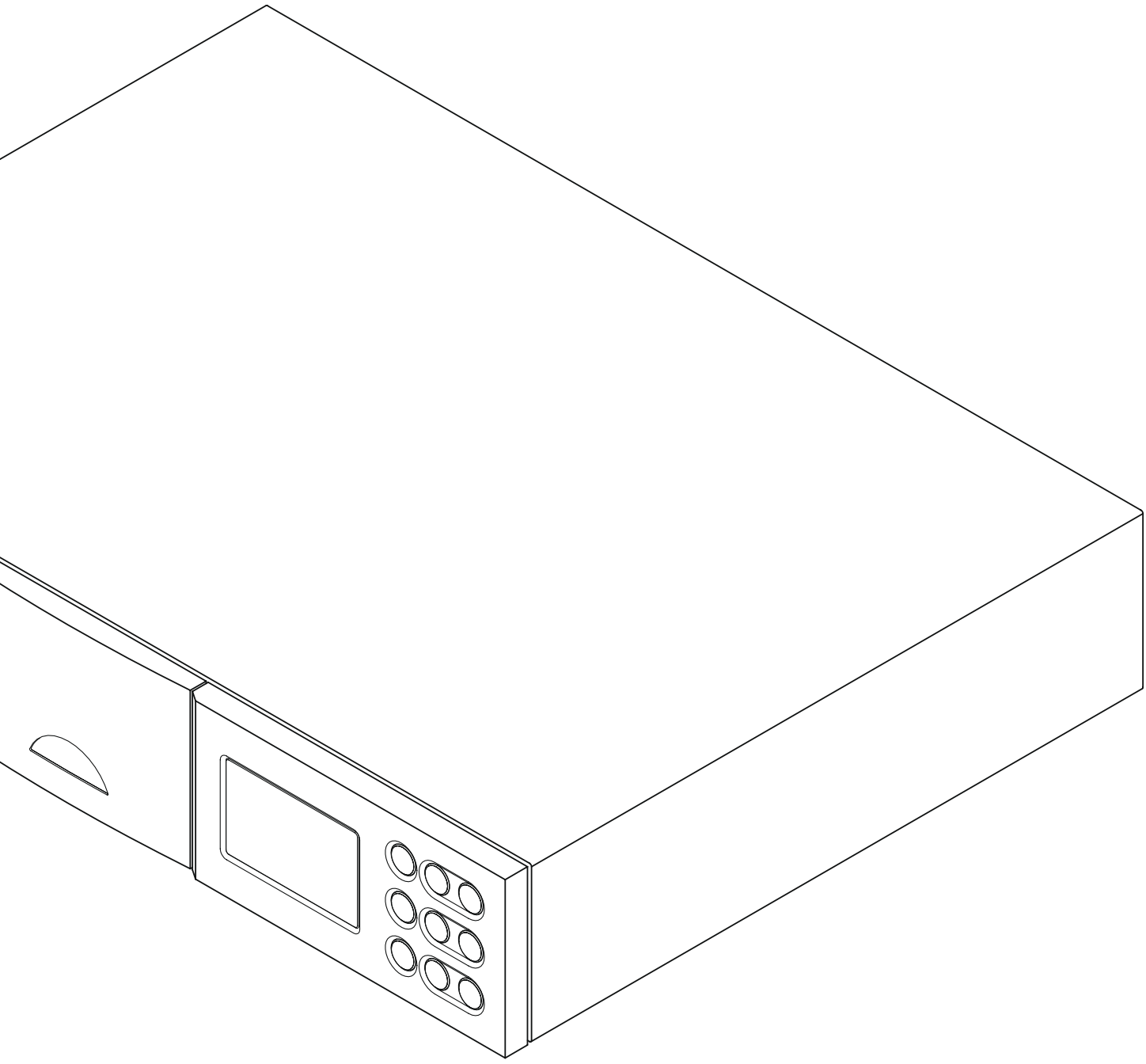
naim

world class sound...



REFERENCE MANUAL

NAIMUNITI ALL-IN-ONE AUDIO PLAYER

ENGLISH

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The "Made for iPod" logo indicates that this product has been designed specifically to work with iPod. The manufacturer certifies that this accessory has been made in accordance with the high standards of quality and performance that you expect from iPod and Apple.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

1 NaimUniti Introduction

NaimUniti is a highly capable product that will repay time and effort spent on installation and setup. We strongly recommend that you read this manual. NaimUniti effectively incorporates six separate elements. Each of these is introduced in the following paragraphs and subsequently described in full detail in Sections 5 to 10. The NaimUniti elements are:

An Integrated Stereo Amplifier	**Introduced below and fully described in Section 5**
A CD Player	**Introduced below and fully described in Section 6**
A Multi-mode Radio	**Introduced below and fully described in Section 7**
A UPnP™ Audio Interface	**Introduced below and fully described in Section 8**
An iPod Interface	**Introduced below and fully described in Section 9**
A USB Memory Audio Interface	**Introduced below and fully described in Section 10**

Prior to the sections describing NaimUniti's elements, Section 2 covers its installation, Section 3 describes its user interface and Section 4 describes its setup.

1.1 The Integrated Amplifier

1.1.1 Inputs

NaimUniti incorporates an audio preamplifier that provides five analogue and five S/PDIF digital audio external inputs. The preamplifier also accepts internal inputs from NaimUniti's integrated CD player and FM/DAB tuner.

In addition to conventional analogue and digital input signals, the NaimUniti preamplifier can accommodate the following external peripheral inputs:

- iPod via an Apple iPod interface.
- USB memory via a USB interface.
- Internet radio and universal plug and play (UPnP™) servers via an ethernet network socket or wireless network connection.

1.1.2 Signal Outputs

The NaimUniti preamplifier provides the following analogue signal outputs:

- A line output (pre volume control).
- Two mono unfiltered subwoofer outputs (post volume control).
- A preamplifier output (post volume control).
- A headphone output (post volume control).

1.1.3 Controls

The NaimUniti preamplifier provides volume, balance, input selection and mute control from either the front panel or the supplied remote handset.

1.1.4 Speaker Outputs

NaimUniti incorporates a stereo power amplifier rated at 50 Watts per channel into 8 Ohms. The power amplifier is designed to drive one pair of speakers via the sockets on the NaimUniti rear panel.

1.2 The CD Player

NaimUniti incorporates a CD player based on the same swing-out CD drawer and transport used in other Naim CD players. The transport is able to play standard "Red Book" CDs and CDR discs. CD track order can be programmed or tracks can be shuffled (played randomly).

1.3 The Multi-mode Radio

The NaimUniti multi-mode radio combines an FM/DAB (Digital Audio Broadcasting) tuner and an internet radio (iRadio) player. A total of 40 radio stations across all three modes can be stored as presets. In DAB and FM mode stations are tuned by NaimUniti scanning the respective transmission bands. In iRadio mode NaimUniti receives data streams and a list of available radio stations from a dedicated internet server. iRadio requires broadband internet access via a home network connection.

The NaimUniti DAB module incorporates full broadcast and station display capabilities. The FM module is fully RDS (Radio Data System) capable.

Note: *DAB and RDS broadcasts are not available in all territories.*

1.4 The UPnP™ Audio Interface

NaimUniti can connect to a home network and play audio files stored on UPnP™ drives.

1.5 The iPod Interface

NaimUniti incorporates a rear panel iPod interface socket that enables audio files stored on an iPod to be played and the iPod controlled by the NaimUniti front panel or remote handset. The iPod interface socket can also provide power to charge the iPod battery. A Naim n-Link cable, available as an optional accessory, is required to connect an iPod to NaimUniti.

1.6 The USB Interface

NaimUniti incorporates a front panel USB interface socket that enables audio files stored on USB memory sticks to be selected and played.

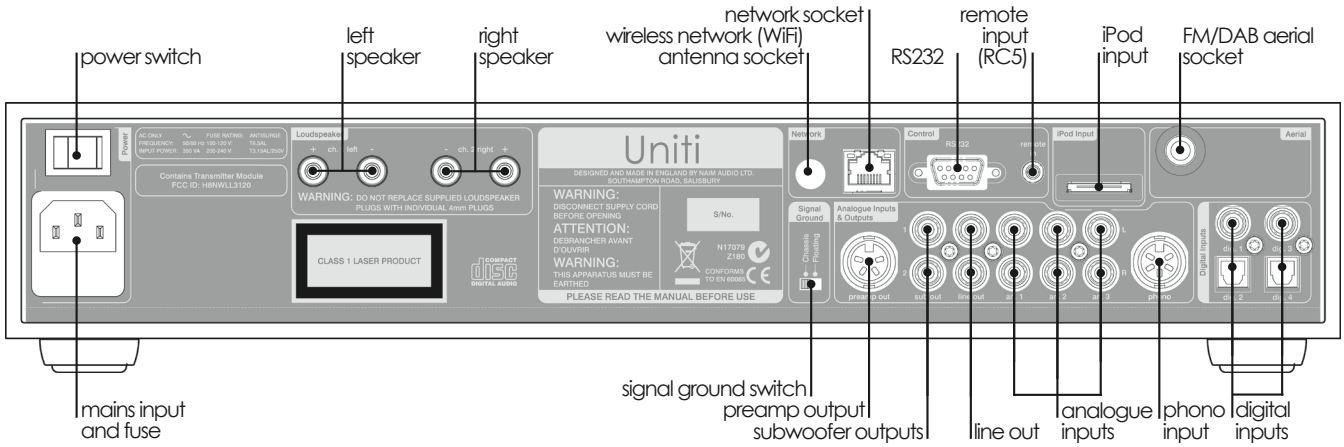
2 NaimUniti Installation and Connection

NaimUniti should be installed on an equipment stand intended for the purpose. Do not stand it directly on top of another item of equipment and ensure it is well ventilated. Care should be taken to ensure that it is level. It should be installed in its final location before connecting cables or switching on.

A transit screw on the underside of the NaimUniti case should be removed before use and replaced if the unit is to be moved. This transit screw must not be used in any other Naim product. Handle NaimUniti with extra care once the transit screw is removed.

Connecting NaimUniti to mains power and to a variety of audio peripherals and sources is described in the following paragraphs. Diagram 2.1 illustrates the NaimUniti rear panel connection sockets.

2.1 NaimUniti Rear Panel



2.2 Mains Power Connection

Connect NaimUniti to a mains power socket using either the mains cable supplied or a Naim Power-Line.

2.3 FM/DAB Aerial Connection

In order to enable high quality FM and DAB radio, NaimUniti requires a, strong, interference-free radio signal. Its rear panel FM/DAB Aerial socket must be connected, via 75ohm low-loss coaxial cable, to a suitable aerial. The aerial should be mounted clear of large obstructions and as high as possible; ideally on a roof.

Note: *Your local retailer should be able to offer advice on a suitable aerial and aerial installer.*

2.4 Audio Signal Connections

2.4.1 Audio Signal Inputs

NaimUniti provides five stereo analogue inputs and five S/PDIF digital inputs including one combined analogue/ digital input socket. Connection to the inputs is made via a variety of socket types. The following table lists the inputs and their socket type:

Input	Type	Socket
an. 1	Analogue	RCA phonos
an. 2	Analogue	RCA phonos
an. 3	Analogue	RCA phonos
phono	Analogue	240° 5 pin DIN
front panel	Analogue	3.5mm jack
	Digital	3.5mm mini-TOSLINK jack
dig. 1	Digital	Coaxial (RCA phono)
dig. 2	Digital	Optical (TOSLINK)
dig. 3	Digital	Coaxial (RCA phono)
dig. 4	Digital	Optical (TOSLINK)

Note: *The Phono DIN socket carries a power supply output suitable to power a Naim phono preamplifier. A turntable cannot be used with NaimUniti without an external phono preamplifier.*

Note: *The front panel analogue/digital jack socket can accept both conventional analogue 3.5mm plugs and mini-TOSLINK optical digital plugs. It will automatically identify the type of plug inserted and handle the signal appropriately.*

Always use high quality interconnect cables to connect sources to NaimUniti inputs.

2.4.2 Audio Signal Outputs

NaimUniti provides audio signal outputs for a variety of applications. Connections to the outputs are made via the socket types listed in the following table:

Output	Type	Socket
Preamp out	Analogue stereo	4-pin DIN
Sub out 1	Analogue mono	RCA phono
Sub out 2	Analogue mono	RCA phono
Line out	Analogue stereo	RCA phonos

Note: *The preamp output is intended for connection to an upgrade or second power amplifier. The output is taken after the NaimUniti volume control so a power amplifier connected to it will respond to NaimUniti volume control changes. The output always reflects the selected input signal.*

Note: *The two subwoofer outputs are mono and unfiltered. They are taken after the NaimUniti volume control so subwoofers connected to them will respond to NaimUniti volume control changes. The outputs always reflect the selected input signal and can be switched on or off in the Speakers setup menu.*

Note: *The stereo line output is intended to be connected to a recording device. It is taken before the NaimUniti volume control so does not reflect volume control changes. The output always reflects the selected input signal.*

2.5 Speaker Outputs

A set of stereo speaker connection sockets is provided on the NaimUniti rear panel. Custom Naim Audio loudspeaker connectors are supplied to make the connection and in order to comply with current European safety regulations these should always be used. Naim Audio speaker cable will provide the best results, however, a range of speaker cable types may be used without risk of damage to the amplifier. Contact your local Naim retailer for further advice. Use equal lengths of speaker cable for each channel.

Ensure when connecting speakers that they are "in phase". That is, the positive and negative connection orientation at both the speaker and amplifier ends of the cable is the same for both channels.

2.6 Headphone Output

NaimUniti is fitted on its front panel with a 3.5mm stereo headphone socket. Insertion of a headphone plug will mute the speaker outputs.

Note*: NaimUniti controls and stores volume settings separately for headphones and speakers.*

2.7 Signal Ground Switch

NaimUniti is fitted on its rear panel with a **Signal Ground** switch offering two positions: **Chassis** or **Floating**. Select the **Chassis** position unless NaimUniti is connected in a hi-fi system incorporating another earthed source component, or mains "hum" is audible through the loudspeakers. Contact your retailer, distributor or Naim for advice if necessary.

Note: *"Connected" in the context above means an analogue audio signal cable that includes an earth connection.*

Note: *All Naim CD players are earthed so the Signal Ground switch should be set to floating if one is connected in the system.*

No damage will be done if the wrong Signal Ground position is chosen however the system sound quality may be compromised.

2.7.1 General Audio Connection Notes

The NaimUniti negative analogue input and output connections for each channel are common. The mains earth (ground) should always be connected regardless of what other equipment is used. The mains earth primarily grounds the case and the electrostatic screen within the transformer, and is only connected to the signal negative if the **Signal Ground** switch is set to **Chassis**. In order to avoid hum loops, the signal negative of the whole system should be connected to the mains earth in one place only.

2.8 iPod Interface

An iPod can be connected to the rear-mounted interface socket using the Naim n-Link cable (available separately). In addition to audio signals the NaimUniti iPod socket carries iPod control signals as well as providing power to charge the iPod battery.

2.9 Network Connections

2.9.1 Wired Network Connection

NaimUniti is fitted on its rear panel with a standard RJ45 ethernet socket. This socket enables NaimUniti to join home networks via a network router to access internet radio data streams or to play audio files stored on appropriately configured UPnP™ servers.

Ethernet-over-mains hardware may be used and provides a simple and convenient method of wired home network connection. However, depending on mains wiring factors specific to each home environment, the presence of network data on the mains supply may compromise overall system sound quality. If any sound quality compromise is found to be unacceptable, dedicated network cabling should be installed or wireless networking should be employed.

2.9.2 Wireless Network Connection

If NaimUniti is to connect wirelessly to the home network the supplied WiFi antenna must be fitted to the rear panel wireless antenna socket. Wireless configuration will also be necessary before NaimUniti is able to connect to the network. See Section 4.6.1 of this manual.

2.9.3 Network Settings

NaimUniti is set up when originally shipped not to require any on-site network configuration but to connect to a network automatically (it uses DHCP by default). However, if your NaimUniti has been previously used, its network configuration may have been altered leaving it unable to connect automatically. If this appears to be the case ensure that DHCP is selected in the Network Settings menu and re-start NaimUniti. If problems still persist contact your retailer, installer or Naim Audio directly. See Section 4.6.

Note: *A NaimUniti switched on without a working wired network connection will only be able to connect to a home network wirelessly. To use an ethernet (wired) connection, switch NaimUniti off, connect the network and switch it on again.*

Note: *For internet radio to operate NaimUniti requires connection to a broadband internet service via a router/ modem with a built-in firewall.*

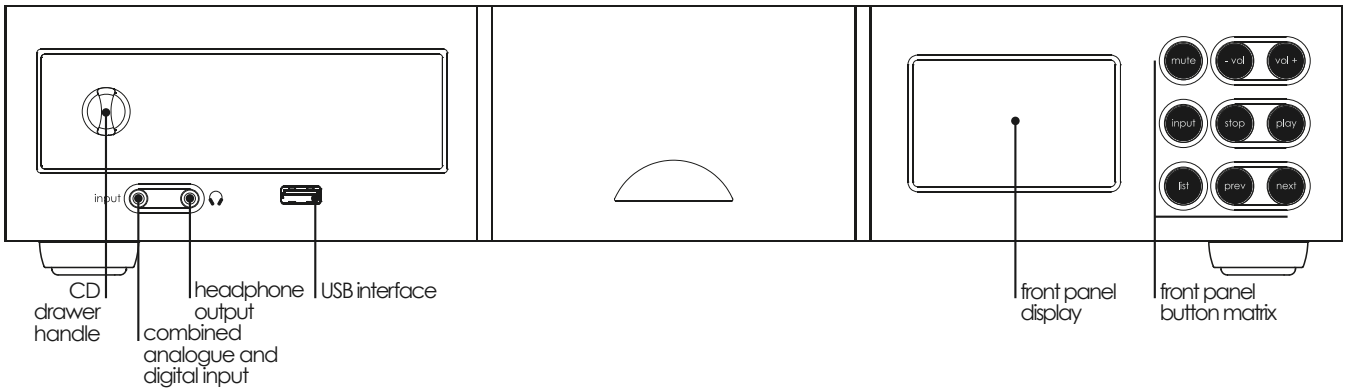
2.10 Control Sockets

NaimUniti is fitted on its rear panel with a standard **RS232** interface socket and a **Remote in** socket. These sockets enable NaimUniti to be integrated within home automation systems. Contact your retailer, distributor or Naim for more information if required.

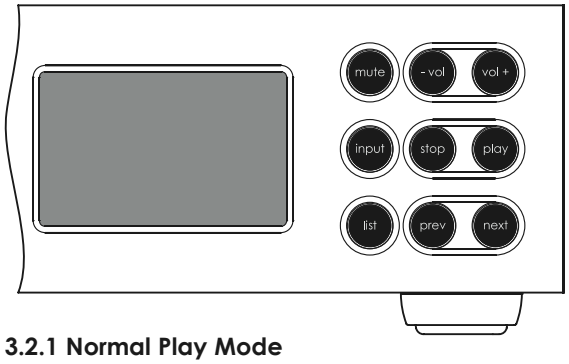
3 NaimUniti Operation

NaimUniti can be operated from either its front panel controls or from the supplied remote handset. In either case, setting up and operating NaimUniti requires navigation through a menu-driven user interface. The general principles of the interface are carried across each of NaimUniti's elements so this section of the manual describes and illustrates those general principles.

3.1 Front Panel Features



3.2 Front Panel Buttons (normal play mode)

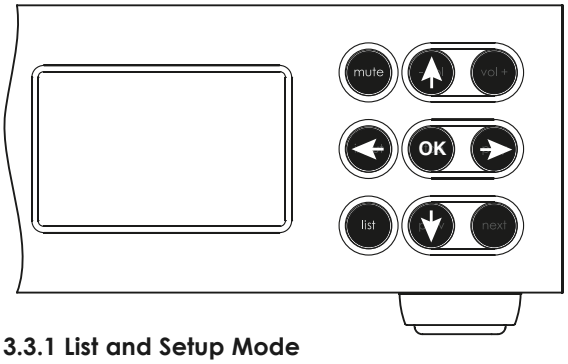


3.2.1 Normal Play Mode

In **normal play** mode the NaimUniti front panel buttons perform the operations described by their legends:

mute	silences NaimUniti
-vol	decreases volume
vol+	increases volume
input	sequentially selects inputs
list	switches NaimUniti to list mode
stop	stops play
play	starts play
prev	selects previous track or audio file
next	selects next track or audio file

3.3 Front Panel Buttons (list and setup modes)

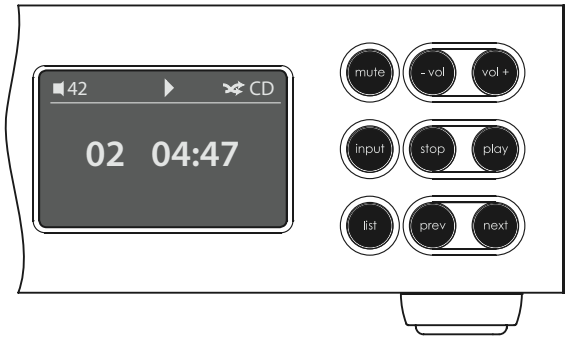


3.3.1 List and Setup Mode

In **list** and **setup** modes the NaimUniti front panel buttons (except mute) re-configure. The reconfigured buttons are illustrated in the diagram above and their operation is described below:

-vol	navigate up menu or list
input	go to previous menu or list (or previous character)
play	go to next menu or list (or next character)
prev	navigate down menu or list
stop	OK (confirm selection)
list	exit list mode
mute	silences NaimUniti
next	non-operational
vol+	non-operational

3.4 Front Panel Display (normal play mode)

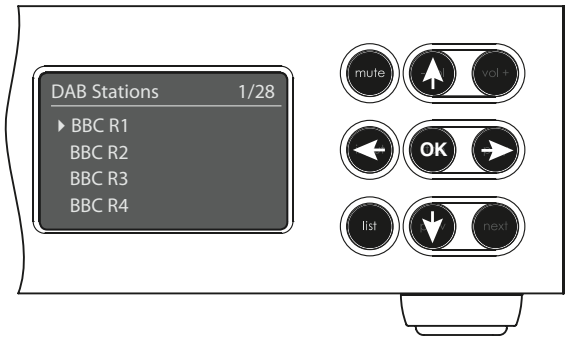


In normal play mode the NaimUniti screen provides a variety of information on the current setup, the input selected and the material playing. A typical normal play mode screen is illustrated above showing track two of a CD has been playing for four minutes forty-seven seconds.

At the top left of the screen the volume level is displayed along with a "speaker" icon that shows NaimUniti is not muted.

At the top of the screen the "play" icon is displayed to show that the play is underway and the "shuffle" icon is displayed to show random play has been selected. "CD" shows that the CD input is selected.

3.5 Front Panel Display (list mode)



List mode is entered by pressing the front panel **list** button or handset **ok/list** key. List mode is used where sources provide data that can be browsed: a list of DAB radio stations for example, or where NaimUniti provides opportunities to name or program items such as radio presets (favourites) or CD tracks for example.

Lists displayed will depend on the input selected and data available. A typical list mode screen is illustrated above showing the DAB radio stations available with BBC R1 selected.

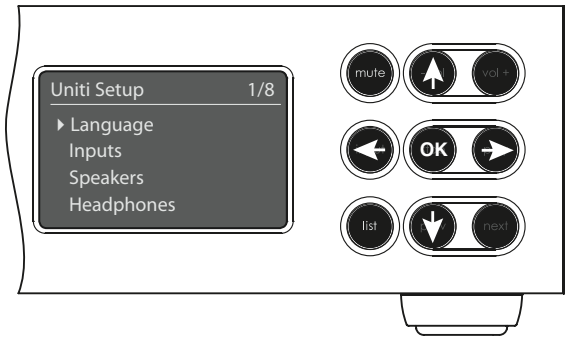
At the top right of the screen, "1/28" denotes that the selected item is number one of twenty-eight.

To scroll up and down lists and select items use the front panel or handset **up** (▲) and **down** (▼) keys and **ok/list** buttons or keys. To return to normal display press the handset **exit** key or front panel **list** button.

Note: *The right (▶) key duplicates the ok/list key when navigating list mode menus.*

In long item lists the handset **numeric/text** keys can be used to jump through the list alphabetically.

3.6 Front Panel Display (setup mode)



Setup mode is entered by pressing the handset **setup** (🔧) key or pressing and holding the front panel list button. It provides access to all user-configurable NaimUniti parameters.

The screen illustrated above is the setup home screen that is always displayed when setup mode is entered. The "1/8" at the top right denotes that the selected item is number one of eight.

To navigate around the setup menus and make selections use the front panel or handset **up** (▲), **down** (▼) and **left** (◀) arrow keys to navigate around menus and the **ok/list** button or key to confirm a selection.

Note: *The right (▶) key duplicates the ok/list key when navigating setup mode menus.*

To exit setup mode press the handset **setup** (🔧) key a second time or press the **exit** key or front panel **list** button.

NaimUniti setup is covered in Section 4.

Note: *If programme material is playing when NaimUniti enters setup mode it will continue to play. The volume, mute and transport (play, pause, stop etc.) keys on the handset will remain operational.*

3.7 NaimUniti Remote Handset

The supplied remote control handset is a multifunctional device designed specifically for NaimUniti.

To fit batteries, remove the battery cover and insert the batteries into the body taking care with their orientation. Replace the battery cover.

The handset key functions are listed and described in the tables below. Some keys change function when NaimUniti is in list/setup mode. Normal play mode functions are denoted by the text on each key and list/setup mode functions are denoted by the text below each key. Keys with only one function are listed in the table on the right.

3.7.1 Normal and List/Setup Mode Keys

Key	Normal Mode	List/Setup Modes
Numeric text	Enter digits 1 to 9	Enter letters in text
0 ␣	Enter 0 (zero)	Enter spaces in text
preset del	Display the radio preset list	Delete last letter in text
store ⬆	Display the radio preset menu	Switch text case
input+ ▲	Select next input	Menu up navigation
input- ▼	Select previous input	Menu down navigation
◀	Input dependent (see note)	Previous menu or back one character in text
▶	Input dependent (see note)	Next menu or forward one character in text
exit	No function	Exits current menu without saving changes
list ok	Display input dependent list of tracks/functions	Confirm action or selection

Note: *Navigation (◀ ▶ ▲ ▼) key assignments can be altered via a the Handset Keys setup menu. See Section 4.8.*

3.7.2 Normal Play Mode Keys

Key	Function
disp	Switches NaimUniti display on or off
vol +	Increase volume
vol –	Decrease volume
mute	Silences NaimUniti
(repeat)	Repeat selected track, programme or playlist
(shuffle)	Play tracks randomly from list
(setup)	Display the setup menu
(info)	Cycle through secondary input information
(play/pause)	Play or pause track
(previous)	Go to previous track/station
(next)	Go to next track/station
(stop)	Stop track
(reverse)	Fast reverse track
(forward)	Fast forward track
cd	Selects the cd input
radio	Sequentially selects the FM, DAB and iRadio inputs
pc	Sequentially selects the UPnP™ and USB inputs
iPod	Sequentially selects the iPod and front panel inputs
tv	Sequentially selects the an. 1 and dig. 1 inputs
av	Sequentially selects the an. 2 and dig. 2 inputs
hdd	Sequentially selects the an. 3 and dig. 3 inputs
aux	Sequentially selects the phono and dig. 4 inputs

Note: *Input selection key assignments can be altered via a the Handset Keys setup menu. See Section 4.8.*

3.8 NaimUniti Text Entry

Some NaimUniti menu screens require text entry - naming inputs for example. Text entry is carried out using the handset numerical buttons in a manner similar to mobile phone SMS text entry.

When text entry is required, multiple presses of a key will scroll through the characters associated with that key. In addition to characters, the **preset** key provides a **delete** function, the **zero** key provides a **space** and the **store** key provides letter **case** change. The **up** (▲) and **down** (▼) keys will also scroll through all the available letters.

The enlarged handset image illustrates the number keys and the characters associated with each.

When prompted on a NaimUniti screen to enter text, select characters in turn by pressing each appropriate key the required number of times. Confirm the text entry by pressing the **ok/list** key.

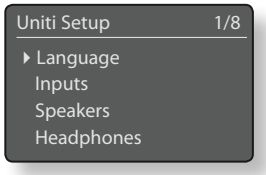
4 NaimUniti Setup

Once NaimUniti is installed with mains power, speakers, a radio aerial and any external input connections made, it can be switched on and set up for use.

The degree to which you modify NaimUniti's default settings will depend upon the uses to which you put it and the extent to which you use its capabilities. It may be that you have no need to modify the default settings at all, however we would encourage you to read this section of the manual in order that you gain a full understanding of NaimUniti's abilities. The following paragraphs describe each NaimUniti setup menu in turn starting with the setup home menu.

Enter NaimUniti setup mode by pressing the handset setup ( ) key. Navigate around the setup menus using the handset arrow keys and make selections using the ok/list key. Exit setup by pressing the exit key.

4.1 The Setup Home Menu



The NaimUniti setup home menu provides access to eight setup menus. The function of each menu is as follows:

Language: Enables the NaimUniti user interface language to be changed.

Inputs: Enables various parameters for each internal and external input to be configured.

Speakers: Configures NaimUniti speaker output options.

Headphones: Configures NaimUniti headphone output options.

Network: Configures NaimUniti network connection settings.

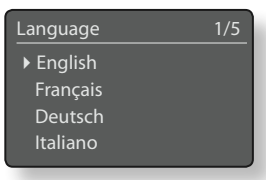
Front Display: Configures NaimUniti display features.

Handset Keys: Enables NaimUniti inputs to be assigned to specific handset keys. Also enables configuration of the handset navigation (◀ ▶ ▲ ▼) keys.

Factory Settings: Enables interrogation of NaimUniti status, deletion of all user presets and return to factory default settings.

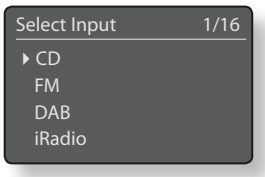
Each of the eight setup menus is described in detail in the following sections. Use the handset **up** (▲) and **down** (▼) and **ok/list** keys to select a setup menu.

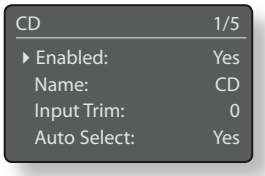
4.2 The Language Menu



The Language setup menu enables the NaimUniti user interface language to be changed. Enter setup mode and use the handset **ok/list** key to select **Language**. Use the handset **up** (▲) and **down** (▼) and **ok/list** keys to select a language. Exit setup mode by pressing the handset **exit** key.

4.3 The Inputs Menu





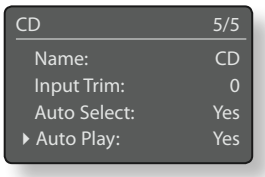
The Inputs setup menu enables a variety of parameters to be specified for each NaimUniti internal source and external input. These parameters define how control of NaimUniti inputs behaves. The options available for each are described in the following sections. Three parameters are common to all inputs:

Enabled: Switches the input on or off and displays or hides any associated menus.

Name: Enables user specified names to be attached to inputs. Use the handset to enter text.

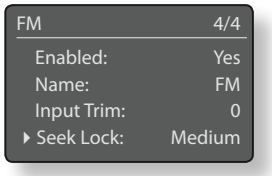
Input Trim: Enables the relative level of each input to be adjusted so that each is of an approximately equal volume. Adjust using using handset ▼ or ▲ key.

4.3.1 CD Input



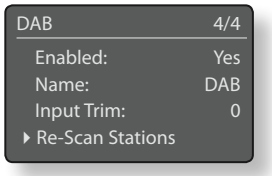
Parameter	Options
Enabled:	Yes / No
Name:	User definable
Input Trim:	±4dB
Auto Select:	Yes / No. If **Yes** is specified the internal CD input will be selected automatically when the drawer is closed and a disc loaded.
Auto Play:	Yes / No. If **Yes** is specified play will start automatically when a disc is loaded.

4.3.2 FM Input



Parameter	Options
Enabled:	Yes / No
Name:	User definable
Input Trim:	±4dB
Seek Lock:	Low / Medium / High. Sets the FM signal strength required for the NaimUniti tuner to identify an FM station.

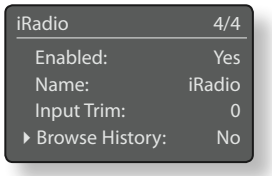
4.3.3 DAB Input



Parameter	Options
Enabled:	Yes / No
Name:	User definable
Input Trim:	±4dB
Re-scan Stations:	Re-scans for DAB stations.

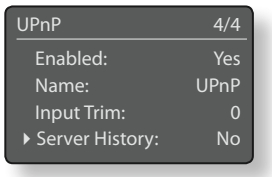
Note: *The NaimUniti DAB input is not implemented in units distributed in territories where Digital Audio Broadcasting is unavailable.*

4.3.4 iRadio Input



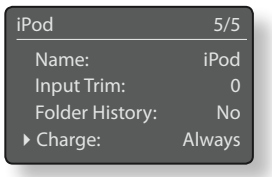
Parameter	Options
Enabled:	Yes / No
Name:	User definable
Input Trim:	±4dB
Browse History:	Yes / No. If **Yes** is specified NaimUniti will select the last used station if it is available. If **No** is specified NaimUniti will display the full list of available stations.

4.3.5 UPnP™ (Network) Input



Parameter	Options
Enabled:	Yes / No
Name:	User definable
Input Trim:	±4dB
Server History:	Yes / No. If **Yes** is specified NaimUniti will automatically display the top menu of the last used UPnP™ drive. If **No** is specified, or the server is not available, a list of available drives will be displayed.

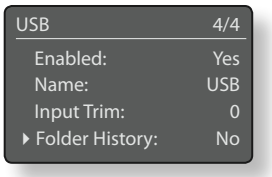
4.3.6 iPod Input



Parameter	Options
Enabled:	Yes / No
Name:	User definable
Input Trim:	±4dB
Folder History:	Yes/No. If **Yes** is specified NaimUniti will automatically display the last used iPod folder. If **No** is specified, or the last used folder cannot be found, the iPod's top level browse menu will be displayed.
Charge:	Always / Never / On input. iPod battery charging takes place **always** when the iPod is connected, **never** takes place, or only when the iPod is connected and an alternative **input** is selected.

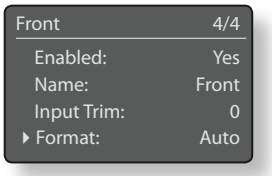
Note: *The option not to charge an iPod is offered because there may be a small reduction in iPod sound quality when simultaneously charging and playing.*

4.3.7 USB Input



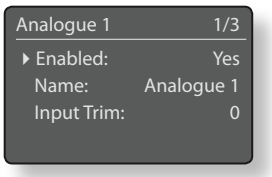
Parameter	Options
Enabled:	Yes / No
Name:	User definable
Input Trim:	±4dB
Folder History:	Yes / No. If **Yes** is specified NaimUniti will automatically display the last used folder on the USB device. If **No** is specified the top level folder of the device will be displayed.

4.3.8 Front Panel Input



Parameter	Options
Enabled:	Yes / No
Name:	User definable
Input Trim:	±4dB
Format:	Auto / Analogue / Digital. If **Auto** is specified the front panel input will automatically detect the audio signal format (analogue or digital) and configure the input appropriately. Specifying **Analogue** or **Digital** will fix the front panel input format.

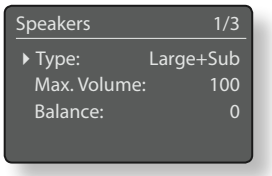
4.3.9 All Other Inputs



Parameter	Options
Enabled:	Yes / No
Name:	User definable
Input Trim:	±4dB

4.4 The Speakers Menu

The Speakers setup menu enables a variety of speaker parameters to be adjusted. The options are tabulated and described in the following sections:



Parameter	Options
Type:	Large+Sub / Large / Small+Sub
Max. Volume:	0 to 100 (adjust using handset ▼ or ▲ keys)
Balance:	-10 to + 10 (adjust using handset ▼ or ▲ keys)

The speaker **type** options specify signal routing and high-pass filtering settings.

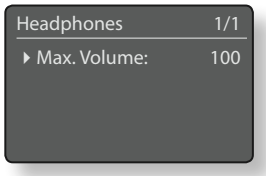
Select the **Large+Sub** option when a subwoofer is connected to NaimUniti and used to augment the low frequency performance of large (full bandwidth) speakers.

Select **Large** when no subwoofer is used (the NaimUniti subwoofer output is switched off when Large is selected).

Select **Small+Sub** when a subwoofer is used to provide the low frequency component of a speaker system incorporating small (restricted bandwidth) satellite speakers. When Small+Sub is specified, a 100Hz high-pass filter is applied to the NaimUniti speaker output signal.

The speaker **Max. Volume** and **Balance** parameters specify maximum allowed volume, and the channel balance respectively.

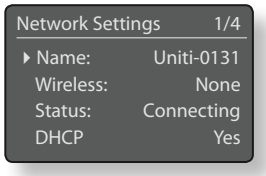
4.5 The Headphones Menu



The Headphones setup menu enables the **Max. Volume** parameter to be specified:

Parameter	Options
Max. Volume:	0 to 100 (adjust using handset ▼ or ▲ keys)

4.6 The Network Settings Menu



The Network Settings menu enables NaimUniti network parameters to be customised to suit the router and network. The options are tabulated and described in the following sections:

Parameter	Options
Name:	User definable (text entry) Default: Uniti-xxxx
Wireless:	None / Wireless Network Names
Status:	Ethernet OK / No Network / Connecting / OK. Signal xxx% (value reflects signal level)
DHCP:	Yes / No

The **Name** parameter enables the NaimUniti's default network name to be changed.

The **Wireless** parameter enables a wireless network to be chosen and joined. See Section 4.6.1 below for detailed wireless set up notes.

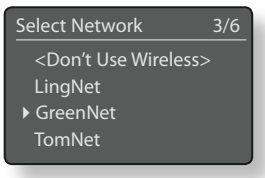
Network **Status** displays the current network connection status.

The **DHCP** parameter enables the NaimUniti network settings to be modified. In most cases, specifying **Yes** and leaving NaimUniti set to DHCP, will be the appropriate option. See Section 4.6.2 below for notes on non-DHCP network connection.

Note: *Devices installed on a network have an IP address through which they are identified by all the other items on the network. DHCP is a set of rules that enable the automatic allocation of addresses as items are connected (or switched on while connected) to the network. NaimUniti is set up by default to use DHCP.*

Note: *If NaimUniti is connected to the network both wirelessly and via ethernet (wired), the ethernet connection will take priority.*

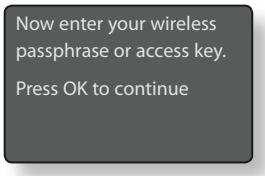
4.6.1 Wireless Network Connection Set Up



If the **Wireless** parameter is selected in the Network Settings menu the Select Network menu will display a list of the available networks. An option not to use a wireless connection is also provided. Use the handset **up** (▲) or **down** (▼) keys to scroll through the list and the **ok/list** key to select a network.

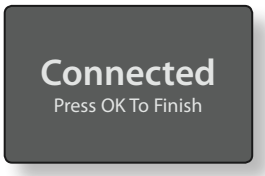
Note: *NaimUniti is compatible with most commonly used WiFi standards. Routers that support 802.11b and 802.11g will work, however those with 802.11g compatibility are recommended for best results.*

Note: *NaimUniti cannot connect to a "hidden" wireless network.*

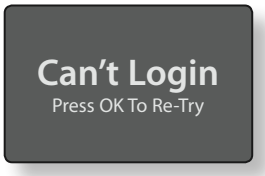


If the selected network is secure and requires a passphrase or access key to join, NaimUniti will display an alert message. Pressing the handset **ok/list** key will then open a text entry screen for entry of the passphrase or access key.

Use the handset **numeric/text** keys to enter the passphrase or access key taking care to ensure that the letter case is correct. Press the handset **ok/list** key when text entry is complete. In the illustration the passphrase is "flatfish".



If the network is successfully joined NaimUniti will display a confirmation screen.

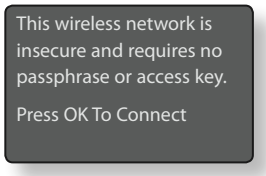


If an incorrect passphrase or access key is entered NaimUniti will display an alert message.

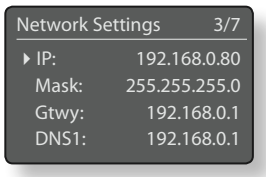
Note: *As a security measure, a router may also require the NaimUniti's MAC address to be entered before allowing it to join the wireless network. This type of security feature is known as 'MAC address filtering'. The NaimUniti MAC address is shown in the 'Factory settings > System Status' page.*

Note: *The wireless passphrase/access key is created when the wireless router is first set up and could be a word or a series of numbers and letters. If the passphrase/access key is not known, check on the router settings page or with the person who initially set up the router.*

If the selected network is insecure and requires no passphrase or access key to join, NaimUniti will display an alert message. Pressing the handset **ok/list** key will immediately connect NaimUniti to the network and display a confirmation screen.



Note: *Wireless connection difficulties can sometimes be resolved by changing the wireless connection channel in the router settings.*

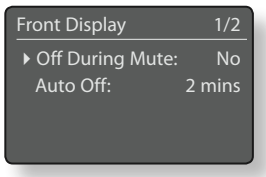


4.6.2 Non-DHCP (Static) Network Connection

If **DHCP** is de-selected in the Network Settings menu, five further parameters will be displayed.

Parameter	Options
IP:	User definable (numerical entry) Default: 0.0.0.0
Mask:	User definable (numerical entry) Default: 0.0.0.0
Gateway (Gtwy):	User definable (numerical entry) Default: 0.0.0.0
DNS1:	User definable (numerical entry) Default: 0.0.0.0
DNS2:	User definable (numerical entry) Default: 0.0.0.0

These settings enable NaimUniti to connect to a network using a fixed IP address. On selecting each one in turn, numerical entry screens will be displayed that require completion with the appropriate network IP address settings. Consult your network router's user documentation for help with specifying fixed IP address settings.



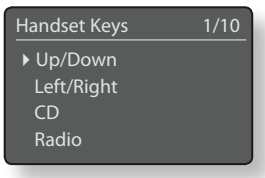
Menu

The Front Display setup menu enables the behaviour of the NaimUniti front panel display to be modified. The options are tabulated and described in the following section:

Parameter	Options
Off During Mute:	Yes / No
Auto Off:	Select from list.

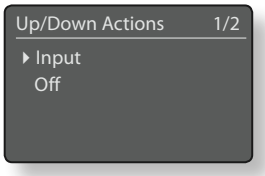
When **Off During Mute** is selected the NaimUniti display will switch off when mute is engaged. **Auto Off** defines the length of time the NaimUniti display will remain switched on after the last interface operation is carried out. Time periods of between 10 seconds and 1 hour can be selected.

Note: *If the display has been switched off using the handset disp key this setting will take priority over the Auto Off setting. The display will always switch on briefly when control commands are received.*



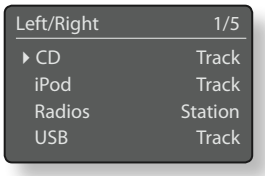
Menu

The Handset Keys setup menu enables the NaimUniti inputs assigned to each handset input selection key (Diagram 4.8.4) to be changed, and the function of the handset navigation keys (Diagram 4.8.3) to be configured.

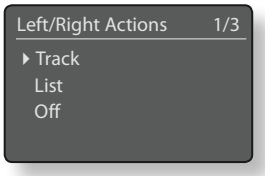


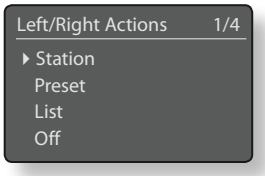
4.8.1 Navigation Key Functions

Selecting the **Up/Down Actions** parameter from the Handset Keys menu opens a further menu that enables the selection from two modes of handset **up** (▲) and **down** (▼) key function: **Input** and **Off**. If **Input** is selected the keys will select inputs and if **Off** is selected the keys will be disabled.



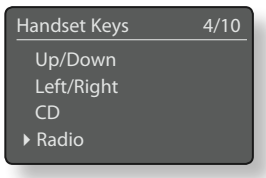
Selecting the **Left/Right Actions** parameter from the Handset Keys menu will open further menus enabling the configuration of the **left** (◀) and **right** (▶) keys independently for the CD, iPod, Radios, USB and UPnP™ inputs. The options available for the USB, iPod, UPnP™ and CD inputs are **Track**, **List** and **Off**. If **Track** is selected the **left** (◀) and **right** (▶) keys will select the previous or next track. If **List** is selected the keys will return NaimUniti to list mode, and if **Off** is selected the keys will be disabled.





The options available for the Radio input are **Station**, **Preset**, **List**, and **Off**. If **Station** is selected the **left** (◀) and **right** (▶) keys will select the next or previous station. If **Preset** is selected the keys will select the previous or next stored

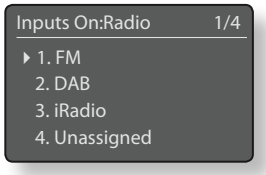
station preset. If **List** is selected the keys will return NaimUnit to list mode, and if **Off** is selected the keys will be disabled.



4.8.2 Input Key Assignments

Each handset input selection key may have up to four inputs assigned to it. The default assignments are shown in the following table:

Handset Key	NaimUniti Inputs Assigned
cd:	CD
radio:	FM, DAB, iRadio
pc:	UPnP™, USB
iPod:	iPod, Front
tv:	Analogue 1, Digital 1
av:	Analogue 2, Digital 2
hdd:	Analogue 3, Digital 3
aux:	Phono, Digital 4



Beneath the **Up/Down** keys and **Left/Right** keys parameters the **Handset Keys** menu displays a list of the eight handset input keys. Selecting one of the keys then displays a list of the four existing assignments to that key (including unassigned). To change an assignment, select the assignment number to be altered and, from the subsequent menu, select the desired input.

4.8.3 Handset Navigation Keys

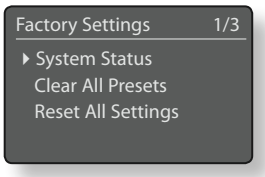
The navigation (◀ ▶ ▲ ▼) keys are located around the **ok/list** key.

4.8.4 Handset Input Selection Keys

The input selection keys (**cd**, **radio**, **pc**, **iPod**, **tv**, **av**, **hdd**, **aux**) are located beneath the transport keys (⏯ ⏮ ⏭ ■ ◀◀ ▶▶).

4.9 The Factory Settings Menu

The Factory Settings setup menu enables NaimUniti's system status information to be displayed, its radio presets to be deleted and it to be returned to its default settings. The options are tabulated and described in the following sections:



Parameter	Options
System Status:	Select to display
Clear All Presets:	Yes / No
Reset All Settings:	Warning displayed: Resetting to factory defaults. You will lose ALL user settings. Press front panel **mute** to continue.

5 NaimUniti Integrated Amplifier

NaimUniti incorporates a high performance integrated preamplifier and power amplifier based on established Naim design principles. The preamplifier is able to handle both analogue and digital audio signals and, in addition to NaimUniti's internal CD player, multi-format radio and network interface it has inputs for five external analogue and five external digital signals.

Using the NaimUniti amplifier is simply a matter of selecting the desired input and setting the listening volume level.

5.1 Selecting Inputs

Inputs can be selected by pressing the front panel **input** button, the handset **up** (▲) and **down** (▼) keys or one of the handset **input selection** keys.

Note: *The front panel input is automatically selected as soon as a plug is inserted.*

Pressing the front panel **input** button or handset **up** (▲) and **down** (▼) keys scrolls through and selects the inputs in the following order:

CD, **FM** (radio), **DAB** (radio), **iRadio**, **UPnP™** (Network UPnP™), **iPod**, **USB**, **Front** (front panel analogue/digital), **Analogue 1**, **Analogue 2**, **Analogue 3**, **Phono** (Analogue 4), **Digital 1**, **Digital 2**, **Digital 3**, **Digital 4**.

Note: *These are the default input names. They may be altered within the NaimUniti set up menus. See Section 4.3. Inputs can also be disabled so that they are hidden from selection.*

Pressing one of the handset **input selection** keys either directly selects a single input or scrolls through a group of inputs. For example, by default, pressing the **CD** input selection key selects the **CD** input, while pressing the **radio** input selection key scrolls through a group comprising the **FM**, **DAB** and **iRadio** inputs.

Note: *The default input selection key assignments may be altered within the NaimUniti set up menus. See Section 4.8.2.*

Selecting an input will route that input's audio signal to the NaimUniti outputs.

NaimUniti will momentarily display input names as they are selected before displaying input specific information; CD track or radio preset for example.

If an input is not operational (for example, no USB memory stick is attached) when selected, NaimUniti will display a descriptive alert message.

5.2 Volume Control

NaimUniti volume control is achieved by using either the front panel **–vol** and **vol+** buttons or the handset **vol–** and **vol+** keys. The volume control affects the speaker, headphone, subwoofer and preamplifier outputs.

Note: *In list or setup modes front panel volume control is disabled. Volume can still be controlled using the handset volume keys.*

The mute function silences the NaimUniti speaker, headphone, preamplifier and subwoofer outputs and is engaged or disengaged by pressing the front panel **mute** button or handset **mute** key. Mute is indicated by the display volume icon flashing.

5.3 Amplifier Display

In normal operation the NaimUniti front panel display primarily shows information relating to the selected input. It will change temporarily to show amplifier adjustments such as volume level and signal mute state as these are made.

5.4 Signal Outputs

In addition to its speaker outputs the NaimUniti integrated amplifier provides a stereo line output, two mono unfiltered subwoofer outputs, a stereo preamplifier output, and a headphone output.

The line output can be used to connect NaimUniti to an analogue recording device. The NaimUniti volume control has no effect on the line output level.

The subwoofer outputs are specifically intended to provide signals appropriate to drive active subwoofers. The two subwoofer outputs are identical mono signals. The appropriate subwoofer/speaker configuration can be set up through the Speakers setup menu. See Section 4.4.

The preamplifier output is designed to enable an upgrade or additional Naim Audio power amplifier to be connected to the NaimUniti preamplifier.

The NaimUniti headphone amplifier is able to drive most commonly available heaphones. Insertion of a headphone plug will mute the NaimUniti speaker, preamplifier and subwoofer outputs.

5.5 Amplifier Fault Warnings

In the unlikely event that the NaimUniti power amplifier is overloaded, exceeds its normal operating temperature or malfunctions, its output will mute and the display will show a warning message.

6 NaimUniti CD Player

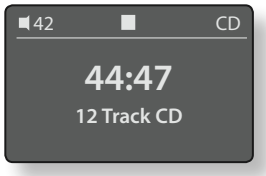
NaimUniti incorporates a fully featured CD player based on established Naim practice using a manual swing-out loading drawer, custom transport control software and unique digital and analogue electronics. Select the NaimUniti CD input to begin using the CD player.

6.1 Disc Loading

To load a CD pull open the drawer using the handle on the left hand side of the unit. Place the CD on the platter followed by the magnetic puck. Do not use a puck from any other Naim CD player. Different Naim CD players use dissimilar pucks. Push the door closed.

NaimUniti will automatically read the disc index when the CD drawer is closed. If **Auto Select** is specified in the CD setup menu (see Section 4.3.1) NaimUniti will switch automatically to the CD input. If **Auto Play** is specified the CD will begin to play from track one immediately.

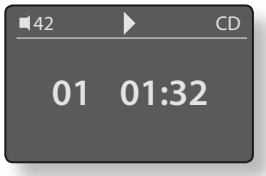
6.2 CD Transport Control



CD transport (play, stop, etc.) can be controlled from either the front panel transport buttons - **play**, **prev**, **next stop** - or from the remote handset transport keys (⏯ ⏮ ⏭ ■ ⏪ ⏩).

Note: *To engage or disengage pause using the front panel controls press play.*

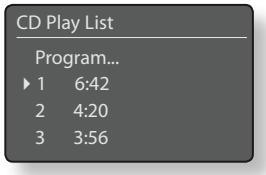
6.3 CD Display and Track Selection



When a CD is loaded NaimUniti will display its total playing time and number of tracks.

If CD auto play is engaged the CD will begin playing immediately. During play the display will show the track number and its elapsed time. The stop icon at the top of the display will change to a play icon.

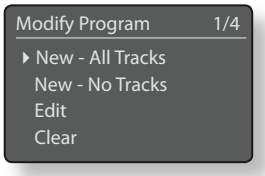
In either play or stop mode CD tracks may be selected either by using the front panel **prev** and **next** buttons or the handset **prev** and **next** keys. Tracks may also be selected by entering the track numbers using the handset **numeric/ text** keys.



To repeat an entire CD (or programmed running order) press the handset **repeat** (🔁) key. To shuffle (randomise) track order press the handset **shuffle** (🔀) key.

Pressing the front panel or handset **ok/list** key will switch the display to list mode where the CD tracks and their individual running times are listed. Tracks can be selected to play by scrolling up and down the list using the handset **up** (▲) and **down** (▼) keys and pressing the **ok/list** key. Above the track list in the display is a **Program** command. Select Program to alter the CD running order and to suppress or repeat tracks.

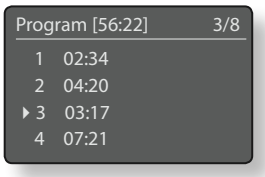
6.4 CD Track Playlist Programming



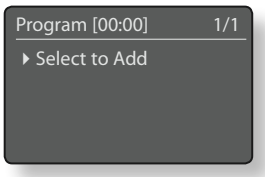
Selecting **Program** from a CD track list opens the **Modify Program** menu. Selecting **New - All tracks** creates a track playlist containing all the tracks on the currently loaded CD and opens the **Program** menu. Selecting **New - No tracks** creates an empty playlist and opens the **Select to Add** menu. **Edit** and **Clear** are only displayed if there is an existing playlist. **Edit** opens the **Edit Program** menu while **Clear** deletes the existing playlist.

Note: *If the desired playlist contains the majority of the tracks on the CD select "New - All tracks" and delete the unwanted tracks. Alternatively, if the desired playlist has just a couple of tracks from the CD select "New - No tracks" and add the desired tracks.*

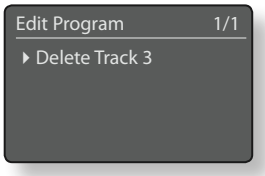
Note: *CD play will stop if the Modify Program menu is selected while play is underway.*



The **Program** menu displays a list of track numbers in the left hand column and their individual running times in the right hand column. The order of the track numbers, top to bottom, reflects the order in which they will play.



If the menu has opened as a result of selecting **New - All Tracks** the columns will reflect the track sequence of the currently loaded CD. If it has opened as a result of selecting **New - No Tracks** only **Select to Add** will be displayed.



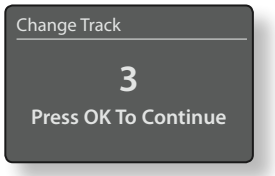
To delete CD tracks after selecting **New - All Tracks**, use the handset **up** (▲) and **down** (▼) keys to scroll to the first track to be deleted (track 3 in the **Program** menu illustration) and press the **ok/list** key. The **Edit Program** menu will open to confirm the deletion.

Once a playlist has been created, the **Edit** and **Clear** options become available in the **Modify Program** menu. **Change** and **Insert** options also become available in the **Edit Program** menu:

Delete Track X**:** Select and press **ok/list** to delete the selected track from the playlist.

Change Track X**:** Select and press **ok/list** to change a track.

Insert New Track: Select and press **ok/list** to insert a track.



Selecting either **Change Track** or **Insert New Track** opens a window displaying the selected track number. Use the handset **numeric/text** keys or **up** (▲) and **down** (▼) keys followed by the **ok/list** key to change the track number and confirm the change or insertion.

Note: *CD playlists cannot contain duplicate tracks.*

6.5 CD Player Maintenance

It is important for reliable operation of the NaimUniti CD player to ensure that the surfaces of the transport platter and the underside of the puck are free of dust or debris which can prevent the disc from sitting properly and cause it to slip.

To clean the transport platter, take a piece of Blu-Tack and lightly apply it to the top surface of the magnetic metal hub, picking up any material attached to it. Brush the plastic outer edge lightly with your finger or a soft brush to ensure that it is dust and particle free. Similarly, clean the puck with Blu-Tack, to remove debris from its underside.

Do not, under any circumstances, use any solvents or fluids for the cleaning process.

7 NaimUniti Multi-mode Radio Tuner

NaimUniti incorporates a multi-mode radio tuner able to receive FM and DAB transmissions and internet radio streams. FM and DAB operation requires an appropriate aerial to be connected to the rear panel aerial input. Internet radio requires NaimUniti to be connected to a broadband internet service via a network router that incorporates an appropriate firewall. NaimUniti is able to store a total of forty station presets (favourites) across all three tuner modes. Select the FM, DAB or iRadio input to begin.

7.1 FM Tuner – Seeking Stations

To find FM stations press the handset **prev** (|◀) or **next** (▶|) keys and the tuner will scan the FM band locking on to and stopping at stations that exceed a specific signal strength.

Note: *The interlocked circle icon at the top right of he display indicates a stereo signal.*

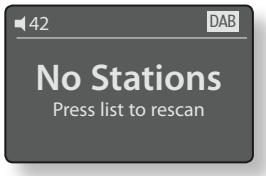
Note: *The signal strength lock threshold may be altered within the NaimUniti set up menus. See Section 4.3.2.*

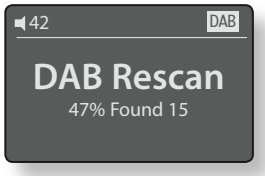
If stations are RDS enabled their names, rather than just their frequencies, will be displayed. Pressing the handset **info** (i) key will sequentially display any station info broadcast, station genres if defined, station frequency and signal strength. If stations are not RDS enabled, the info key will display only frequency and signal strength.

When the scan stops at a station either press the **prev** (|◀) or **next** (▶|) key again to ignore the station and continue the scan or store the station as a preset favourite by pressing the handset **store** key.

Pressing the handset **ok/list** key displays an FM options menu that enables mono mode to be selected. Mono operation can sometimes be useful to reduce noise and interference.

7.2 DAB Tuner – Seeking Stations





When the NaimUniti DAB Radio input is first selected it must scan for stations. Select the DAB input and press the handset **ok/list** key to begin the search. Scan progress and the number of stations found will be displayed. When the scan is complete NaimUniti will order the stations alphabetically and select the first station in the list.

DAB stations can be selected either alphabetically in turn by pressing the handset **prev** (|◀) or **next** (▶|) keys, or selected in **list** mode by pressing the **ok/list** key and browsing the station list. Use the handset **up** (▲) or **down** (▼) keys to scroll through the list and the **ok/list** key to select a station. In long lists the handset **numeric/text** keys can be used to jump through the list alphabetically.

Once a station is selected, pressing the handset **info** (i) key will sequentially display the station genre, signal strength, bit rate and any station info broadcast.

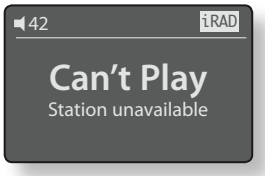
7.3 iRadio Tuner – Seeking Stations

When NaimUniti is connected to a network with high speed internet access it will automatically download a list of available internet radio stations. When the iRadio input is subsequently selected, a **list mode** menu will be displayed that shows all the available stations sorted by location, genre, podcast location, podcast genre, new station and most popular stations. The display will automatically enter **list mode** so the handset **up** (▲), **down** (▼), **left** (◀) and **ok/list** keys can be used to browse the menus and select stations. In long lists the handset **numeric/text** keys can be used to jump through the list alphabetically.

Once a station is selected the NaimUniti display will exit from **list mode** and revert to normal mode. To re-enter list mode for further list browsing and selecting press the handset **ok/list** key.

Pressing the handset **info** (i) key while a station is playing will sequentially display the station (stream) name, elapsed time, stream info, buffer level and any station info broadcast.

Note: *Buffer level indicates the quantity of stored data within NaimUniti and reflects the ability of the network to provide data at the necessary rate.*

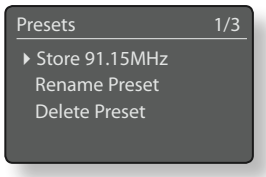


It is possible for an internet radio station listed to be "off-line" and be unavailable when selected. If this occurs an alert message will be displayed.

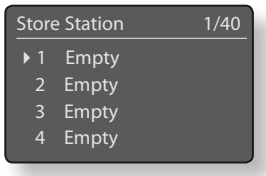
Note: *If NaimUniti is left muted for more than five minutes while an internet radio station is selected the data stream will be stopped in order to save network bandwidth. The stream will re-start as soon as mute is disengaged.*

7.4 Storing Radio Presets

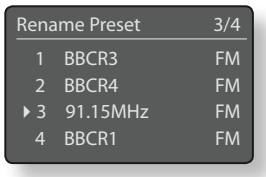
When the handset **store** key is pressed the display will show a menu that enables confirmation of the preset store and options to rename or delete the preset.



Selecting the **store** option opens a menu that enables the preset to be stored in one of the forty locations. Scroll to the desired location and press the **ok/list** key.



Selecting **Rename Preset** opens a menu that provides the opportunity to rename a previously stored station. Scroll to the preset to be renamed and press the **ok/list** key to open a text entry screen. Use the handset **numeric/text** keys in text entry mode to select characters. Press the **ok/list** key to save the new preset name. See Section 3.8 for a full description of text entry.

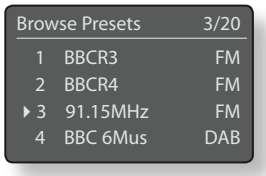


Selecting **Delete Preset** opens a preset list menu. Scroll to the desired preset and press the **ok/list** key.

Note: *Preset operations (store, rename or delete) are not possible directly from list mode. The store key must be pressed when in normal play mode to access these options.*

7.5 Using Radio Presets

To select a preset press the handset **preset** key to open the **Browse Presets** menu. Scroll to the desired preset and press the **ok/list** key.



Note: *The Browse Presets menu displays presets stored across all three NaimUniti radio modes (FM, DAB, iRadio). Selecting a preset from a radio mode other than the one currently selected will automatically switch NaimUniti to that mode.*

Note: *It is possible for an internet radio station stored as a preset to be "off-line" and be unavailable when subsequently selected. If this occurs an alert message will be displayed.*

8 NaimUniti UPnP™ Audio Interface

In addition to providing the network connection required for internet radio playback, the NaimUniti network interface enables audio files stored on UPnP™ servers to be streamed and played. NaimUniti must be connected, either wirelessly or via ethernet cabling, to a network router. If the router provides an internet connection it should incorporate a firewall. If NaimUniti is already connected to a network, begin by selecting the UPnP™ input.

8.1 UPnP™ Servers

UPnP™ servers incorporate a software application that allows NaimUniti, or any other UPnP™ compatible player, to play audio stored and streamed by another device on the network. The UPnP™ server is usually a PC or Mac home computer, although some Network Attached Storage (NAS) drives incorporate a UPnP™ application.

Windows Media™ Player version 11 or above incorporates built in UPnP™ support and a variety of third party UPnP™ applications are also available that are compatible with both Windows and Macintosh operating systems.

In the case of the Windows UPnP™ server the following steps must be taken before music can be streamed to NaimUniti:

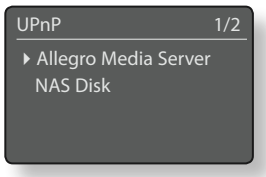
- Ensure Windows Media™ Player version 11 or above is installed.
- Enable Windows Media™ Player file sharing. From the Media Player Options dialogue select **Library** > **Configure Sharing**... then select **Share my media**.
- Ensure the firewall is configured to allow file sharing.

8.2 Audio File Compatibility

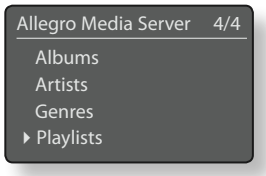
The audio files stored on the UPnP™ servers attached to the network may be in MP3, AAC, FLAC, WAV or Ogg Vorbis formats. Files must be free of any digital rights management playback restrictions such as the Apple iTunes FairPlay system.

8.3 Scanning Servers and Playing Files

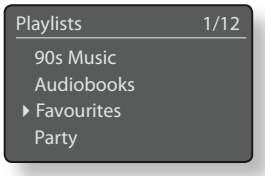
When the NaimUniti UPnP™ input is selected a list of available UPnP™ servers on the network will be displayed. The display will automatically enter **list mode** so the handset **up** (▲), **down** (▼) and **ok/list** keys can be used to browse and select the desired server.



Note: *Allegro Media Server (shown in the illustrations) is a UPnP™ Media Server application that runs on Apple or Windows PCs and provides access to media files and iTunes library contents from UPnP™ media players such as NaimUniti.*



The manner in which the UPnP™ server is set up will define how the audio files and playlists it holds are listed and displayed. In most cases the default setup will list and display files by artist and album, but list by genre and predefined playlists may also be available.



Note: *Playlists cannot be generated or stored locally by NaimUniti. To play a playlist it must reside on the UPnP™ server.*

Selecting one of the playlist categories using the **up** (▲), **down** (▼) and **ok/list** keys will display a menu showing items that fall into the selected category. An entire category can be selected for playback by using the **up** (▲), **down** (▼) keys followed by the **play/pause** (⏯) key.

Alternatively, selecting a category using the **up** (▲), **down** (▼) keys followed by the **ok/list** key will display the full list of tracks contained within the category. Tracks can then be selected for playback by using the **up** (▲), **down** (▼) and **ok/list** keys.

In long lists the handset **numeric/text** keys can be used to jump through the list alphabetically.

Once playback is underway the NaimUniti display will exit from **list mode** and revert to normal mode where the handset transport keys (⏯ ⏮ ⏭ ■) can be used to control playback. To re-enter list mode for further list browsing and selecting press the handset **ok/list** key.

During playback, pressing the handset **info** (ℹ) key will sequentially display the server name, buffer level, track elapsed time and stream (audio file) information.

Note: *Buffer level indicates the quantity of stored data within NaimUniti and reflects the ability of the network to provide data at the necessary rate.*

9 NaimUniti iPod Interface

Apple iPods, including the iPod Touch, can be connected to the NaimUniti rear panel iPod socket using the Naim n-Link cable (available as an accessory). Once an iPod is connected, the NaimUniti user interface and display can be used both to control the iPod and browse its contents. iPods should not be connected to NaimUniti's front panel USB socket.

Begin by connecting the iPod using the n-Link cable to the NaimUniti rear panel iPod interface and selecting the iPod input.

9.1 iPod Compatibility

NaimUniti's iPod interface is not fully compatible with every iPod model. Incompatible iPods fall into two categories:

- iPods that connect via Firewire will play files when connected to NaimUniti and can be controlled via the NaimUniti user interface, however their batteries will not charge.
- iPods such as the first generation iPod Shuffle that incorporate a USB plug only for connection will neither play, charge, nor be controllable via the NaimUniti interface.

An incompatible iPod can always be connected via its headphone socket to the NaimUniti front panel input or with an appropriate cable to one of the rear panel analogue RCA phono socket inputs. File selection, and playback control will however remain with the iPod and not be duplicated through the NaimUniti user interface.

Note: *The iPod volume control will remain operational when it is connected to NaimUniti.*

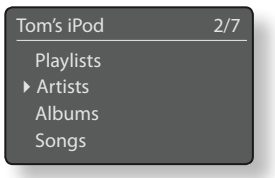
9.2 Connecting an iPod

Connect the iPod to NaimUniti using the n-Link cable. Plug one end of the cable into the NaimUniti rear panel iPod interface socket and the other end into the iPod. With the iPod connected and the NaimUniti iPod input selected the display will reflect the audio files and playlists stored on the iPod. If there are a very large number of tracks stored on the iPod it may take a little time for them to appear in the NaimUniti display.

Note: *The iPod can be safely connected or disconnected at any time.*

9.3 Browsing and Controlling an iPod

With the iPod connected, the NaimUniti display will automatically enter **list mode** so the handset **up** (▲), **down** (▼), **left** (◀) and **ok/list** keys can be used to browse and select items.



An entire category can be selected for playback by using the **up** (▲) and **down** (▼) keys followed by the **play/pause** (⏯) key.

Alternatively, selecting a category using the **up** (▲), and **down** (▼) keys followed by the **ok/list** key will display the full list of items contained within the category. Items can then be selected for playback by again using the **up** (▲), **down** (▼) and **ok/list** keys.

Once playback is underway the NaimUniti display will exit from **list mode** and revert to normal mode where the handset transport keys (⏯ ⏮ ⏭ ⏹ ⏪ ⏩) can be used to control playback. To re-enter list mode for further list browsing and selecting press the handset **ok/list** key.

During playback, pressing the handset **info** (ℹ) key will sequentially display the iPod name, audiobook chapter, track elapsed time and stream (audio file) information.

The iPod's own interface and controls will not operate while it is connected to NaimUniti.

9.4 iPod Charging

The NaimUniti setup menus allow one of three different iPod battery charging regimes to be selected (See Section 4.3.6). The three regimes are:

- **Always**: battery charging takes place at all times when the iPod is connected.
- **Never**: battery charging never takes place when the iPod is connected.
- **On Input**: battery charging only takes place when the iPod is connected and an alternative input is selected.

Note: *The option not to charge an iPod is offered because there may be a small reduction in iPod sound quality when simultaneously charging and playing.*

10 NaimUniti USB Interface

NaimUniti can play audio files stored on USB memory sticks inserted into the front panel USB socket. Begin by inserting a memory stick and selecting the NaimUniti USB input.

10.1 USB Media and File Compatibility

10.1.1 USB Media Compatibility

USB memory sticks must be in Windows/DOS format to be used with NaimUniti. Macintosh formats are not compatible.

Note: *The NaimUniti USB interface is not intended for the connection of iPods.*

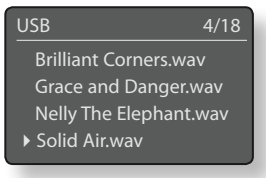
10.1.2 File Compatibility

NaimUniti can play audio files stored on USB Sticks in the following formats: MP3, AAC, FLAC, WAV and Ogg Vorbis. Files must be free of digital rights management playback restrictions such as the Apple iTunes FairPlay system.

10.2 Browsing and Playing USB Files

With a USB memory stick inserted and the NaimUniti USB input selected the display will enter **list mode** and show the structure of USB stored audio files. Use the handset **up** (▲), **down** (▼), **left** (◀) and **ok/list** key to browse and select items.

Note: *The memory stick can be safely connected or disconnected at any time.*



Selecting a folder will display the list of files contained within and selecting a single file will begin playback. Playback will continue through any list of files contained within a folder. The order of play can be shuffled (randomised) by pressing the handset **shuffle** (⤮) key.

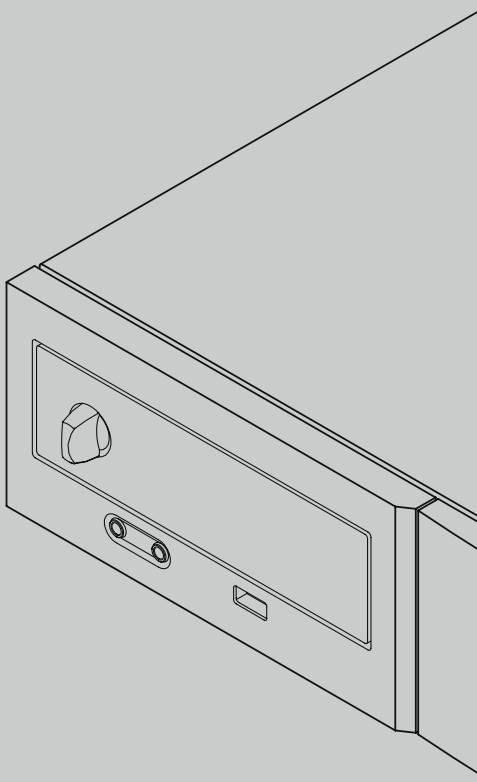
In long lists of items the handset **numeric/text** keys can be used to jump through the list alphabetically.

Once playback is underway the NaimUniti display will exit from **list mode** and revert to normal mode where the handset transport keys (⏯ ⏮ ⏭ ■ ⏪ ⏩) can be used to control playback. To re-enter list mode for further list browsing and selection, press the handset **ok/list** key.

During playback, pressing the handset **info** (ℹ) key will alternately display data stream info and track elapsed time.

11 NaimUniti Specifications

Audio Outputs:	Speaker output Line output (L+R RCA) Sub output (2 Mono outputs via RCA) Preamp output (4-pin DIN)
Line Output:	275mV, 600Ω
Preamp Output Load:	10kΩ minimum
Frequency Response:	20Hz - 50 kHz
Signal to Noise Ratio:	80dB
CD Phase Response:	Linear phase, absolute phase correct
Power Output:	50WPC into 8Ω 90WPC into 4Ω
Other Outputs:	Headphone, 3.5mm jack
Antenna Input:	F type
Analogue Inputs:	3.5mm front panel jack 3 x RCA pairs 1 x DIN with power to support a Naim phono preamplifier
Digital Inputs:	5 x S/PDIF (2 x optical TOSLINK, 2 x coaxial, 1 x 3.5mm miniTOSLINK)
Analogue Input Overload:	27 dB (RCA connections) (Phono and Front panel: 33.8 dB)
USB:	Front panel socket
Other Inputs:	Ethernet and iPod
Remote Input:	Rear panel, RC5
RS232:	Rear panel
Audio Formats Supported:	Internet radio (WMA, MP3 Streams, MMS) Playlists (M3U, PLS) MP3, AAC (up to 320 kbps, CBR/VBR) Apple Lossless (from iPod) Windows Media–formatted content (up to 320 kbps) WAV, FLAC, Ogg Vorbis
CD Compatibility:	Red Book and CD-R
Supply Voltage:	100-120V or 220V-240V, 50/60Hz
Quiescent Consumption:	35 Watts
Dimensions (H x W x D):	87 x 432 x 314mm
Weight:	11.3kg
Shipping Weight:	14kg
Shipping Dimensions: (H x W x D)	240 x 590 x 500mm
Finish:	Black



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